

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record as directed below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was done by Usman A. Mughal
(Reg. No. 62,887) as directed by the examiner in a telephone interview on 04/21/2010

Claims

2. The claims has been amended as follows:
 1. **(Currently Amended)** A method for monitoring one or more resources by a monitoring architecture, the method comprising:
assigning each of a plurality of runtime beans to the respective one or more of a plurality of resources to be monitored, wherein each of the plurality of runtime beans to provide monitoring information regarding each of the respective one or more resources to a monitor bean associated with the runtime bean assigned to the respective resource, the monitor bean being one of a plurality of monitor beans in the monitoring architecture;
arranging the plurality of monitor beans into a hierarchical tree structure, wherein each of the monitor beans to receive the monitoring information regarding the resource to be monitored from the runtime bean assigned to the monitor bean, and wherein each of the plurality of monitor beans in the hierarchical tree structure to be individually represented as a tree node of the hierarchical tree structure;
continuous monitoring, in real-time, the plurality of resources via the plurality of runtime beans respectively assigned to the plurality of resources;
registering ~~each of the~~ monitor beans as a cluster by a server of the monitoring

architecture, wherein the server to serve as a single point of entry for calling each of the plurality of runtime and monitor beans; and receiving by the server of the monitoring architecture the continuous monitoring information from the plurality of runtime beans at predetermined periodic time periods, wherein the tree node associated with each monitor bean within the hierarchical tree structure provides individual reporting of the corresponding resource based on the monitoring information received by the monitor bean represented by the tree node,
wherein the monitoring information includes a current monitoring status and a monitoring history of the plurality of resources, wherein the current monitoring status includes a color-coded indication of at least one of status of a resource being monitored among the plurality of resources, wherein the color-coded indication indicates whether the resource is being continuously monitored.

2. (Previously Presented) The method of claim 1, further comprising:
receiving a notification from the runtime beans signaling availability of the monitoring information; and
requesting the monitoring information from the runtime beans in response to receiving the notification.

3. **(Currently Amended)** The method of claim 1, further comprising:
receiving a timer notification from a timer indicating availability of the monitoring information; and
requesting the monitoring information from the runtime beans in response to receiving the timer notification, wherein the timer notification is based on the predetermined time periods.

4. (Cancelled).

5. (Previously Presented) The method of claim 1, wherein the plurality of resources include one or more of Advanced Business Application Programming (ABAP) resources associated with an ABAP engine, Java resources associated with a Java 2 Platform Enterprise Edition (J2EE) engine, kernel service resources, kernel interface resources, and kernel library resources.
6. (Cancelled).
7. (Previously Presented) The method of claim 1, further comprising communicatively interfacing the hierarchical tree structure with a central database and one or more client-level applications using a monitor service.
- 8-10. (Cancelled).
11. (Previously Presented) The method of claim 1, further comprising displaying the monitoring information via a monitor viewer.
12. (Previously Presented) The method of claim 11, wherein the monitor viewer includes one or more of a customized visual administrator monitor viewer, a Web-based monitor viewer, and a Graphical User Interface (GUI)-based monitor viewer.
13. (Cancelled).
14. (Currently Amended) The method of claim ~~[[13]]~~ 1, wherein the current monitoring status includes a color-coded indication of at least one of status of a resource being monitored among the plurality of resources, wherein the color-coded indication further indicates the resource is

nearing a specified event, ~~critical value~~.

15. (Previously Presented) The method of claim 1, wherein the monitoring history includes monitoring history of the plurality of resources that is collected over a predetermined time period.

Deleted: 13

16-34. (Cancelled).

35. **(Currently Amended)** A monitoring system comprising:

an application server having a processor and a storage medium coupled with the processor via a bus, the application server to:

assign each of a plurality of runtime beans to a respective one or more of a plurality of resources to be monitored, wherein each of the plurality of runtime beans to provide monitoring information regarding each of the respective one or more resources to a monitor bean associated with the runtime bean assigned to the resource, the monitor bean being one of a plurality of monitor beans communicably interfaced with the application server;

arrange the plurality of monitor beans into a hierarchical tree structure, wherein each of the monitor beans to receive the monitoring information regarding the resource to be monitored from the runtime bean assigned to the monitor bean, and wherein each of the plurality of monitor beans in the hierarchical tree structure to be individually represented as a tree node of the hierarchical tree structure;

continuously monitor, in real-time, the plurality of resources via the plurality of runtime beans respectively assigned to the plurality of resources;

register each of the monitor beans as a cluster by a server of the monitoring architecture, wherein the server to serve as a single point of entry for calling each of the plurality of runtime and monitor beans; and

receive the continuous monitoring information from the plurality of runtime beans

at predetermined periodic time periods, wherein the tree node associated with each monitor bean within the hierarchical tree structure provides individual reporting of the corresponding resource based on the monitoring information received by the monitor bean represented by the tree node, wherein the monitoring information includes a current monitoring status and a monitoring history of the plurality of resources, wherein the current monitoring status includes a color-coded indication of at least one of status of a resource being monitored among the plurality of resources, wherein the color-coded indication indicates whether the resource is being continuously monitored.

36. (Previously Presented) The system of claim 35, wherein the application server is further to communicably interface the hierarchical tree structure with a central database and one or more client-level applications using a monitor service.
37. (Previously Presented) The system of claim 36, wherein the one or more client-level applications include one or more of a computing center management system, administrative tools, and third party tools.
38. (Cancelled).
39. (Previously Presented) The system of claim 35, wherein the administrative tools include a monitor viewer to display the monitoring information, wherein the monitor viewer includes a customized visual administrator monitor viewer, a Web-based monitor viewer, and a Graphical User Interface (GUI) based monitor viewer.
- 40-43. (Cancelled).

44. **(Currently Amended)** A machine-readable storage medium having instructions stored thereon which, when executed, cause a machine to perform a method, for monitoring one or more resources, the method comprising:

assigning each of a plurality of runtime beans to the respective one or more of a plurality of resources to be monitored, wherein each of the plurality of runtime beans to provide monitoring information regarding each of the respective one or more resources to a monitor bean associated with the runtime bean assigned to the resource, the monitor bean being one of a plurality of monitor beans communicably interfaced with the machine;

arranging the plurality of monitor beans into a hierarchical tree structure, wherein each of the monitor beans to receive the monitoring information regarding the resource to be monitored from the runtime bean assigned to the monitor bean, and wherein each of the plurality of monitor beans in the hierarchical tree structure to be individually represented as a tree node of the hierarchical tree structure;

continuous monitoring, in real-time, the plurality of resources via the plurality of runtime beans respectively assigned to the plurality of resources;

registering ~~each of~~ the monitor beans as a cluster by a server of the monitoring architecture, wherein the server to serve as a single point of entry for calling each of the plurality of runtime and monitor beans; and

receiving the continuous monitoring information from the plurality of runtime beans at predetermined periodic time periods, wherein the tree node associated with each monitor bean within the hierarchical tree structure provides individual reporting of the corresponding resource based on the monitoring information received by the monitor bean represented by the tree node₁

wherein the monitoring information includes a current monitoring status and a monitoring history of the plurality of resources, wherein the current monitoring status includes a color-coded indication of at least one of

status of a resource being monitored among the plurality of resources,
wherein the color-coded indication indicates whether the resource is being
continuously monitored.

45. **(Currently Amended)** The machine-readable storage medium of claim 44,
wherein the instructions which, when executed, further cause the machine
to perform the method comprising:
receiving a notification from the runtime beans signaling availability of the
monitoring information; and
requesting the monitoring information from the runtime beans in response to
receiving the notification, wherein the notification is based on the
predetermined time periods.

46. **(Currently Amended)** The machine-readable storage medium of claim 44,
wherein the instructions which, when executed, further cause the machine
to perform the method comprising:
receiving a timer notification from a timer indicating availability of the monitoring
information; and
requesting the monitoring information from the runtime beans in response to
receiving the timer notification, wherein the timer notification is based on
the predetermined time periods.

47-53. (Cancelled).

54. (Previously Presented) The machine-readable storage medium of claim 44,
wherein the instructions which, when executed, further cause the machine
to perform the method comprising:
displaying the monitoring information via a monitor viewer.

55. (Previously Presented) The machine-readable storage medium of claim 54,

wherein the monitor viewer includes one or more of a customized visual administrator monitor viewer, a Web-based monitor viewer, and a Graphical User Interface (GUI) based monitor viewer.

56-66. (Cancelled).

67. (Previously Presented) The machine-readable storage medium of claim 44, wherein each of the plurality of monitor beans in the hierarchical tree structure represented as a tree node of the hierarchical tree structure to individually report the monitoring information regarding the resource to be monitored from the runtime bean associated with the monitor bean.

68. (Previously Presented) The system of claim 35, wherein each of the plurality of monitor beans in the hierarchical tree structure represented as a tree node of the hierarchical tree structure to individually report the monitoring information regarding the resource to be monitored from the runtime bean associated with the monitor bean.

69. (Previously Presented) The method of claim 1 further comprising:
retrieving a file having semantics and directives, wherein the semantics and directives for arranging the plurality of monitor beans into the hierarchical tree structure.

70. (Previously Presented) The method of claim 1 further comprising:
communicating the continuous monitoring information to a visual administrator for display.

71. (Previously Presented) The system of claim 35, wherein the application server to retrieve a file having semantics and directives, wherein the semantics

and directives for arranging the plurality of monitor beans into the hierarchical tree structure.

72. (Previously Presented) The system of claim 35, wherein the application server to communicate the continuous monitoring information to a visual administrator for display.

73. (Previously Presented) The machine-readable storage medium of claim 44, wherein the instructions which, when executed, further cause the machine to perform the method comprising:
retrieving a file having semantics and directives, wherein the semantics and directives for arranging the plurality of monitor beans into the hierarchical tree structure.

74. (Previously Presented) The machine-readable storage medium of claim 44, wherein the instructions which, when executed, further cause the machine to perform the method comprising:
communicating the continuous monitoring information to a visual administrator for display.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee; such submission should be clearly labeled "Comments on Statement of Reason for Allowance."

Correspondence Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ABDELNABI O. MUSA whose telephone number is (571)270-1901. The examiner can normally be reached on Monday thru Friday: 7:30am to 5:00pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Pwu can be reached on 571-2726798. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. O. M./
Examiner, Art Unit 2446

/Jeffrey Pwu/
Supervisory Patent Examiner, Art Unit 2446